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EXAMINER DANG, D **ART UNIT** PAPER NUMBER 2721

07/05/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks





Application No. 09/377, 383 Examiner **Group Art Unit** 2721

Office Action Summary -The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address-**Period for Reply** A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE. MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, such period shall, by default, expire SIX (6) MONTHS from the mailing date of this communication . - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). **Status** ☐ Responsive to communication(s) filed on ______ ☐ This action is FINAL. ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 1 1; 453 O.G. 213. **Disposition of Claims** Z Claim(s) 1-13 ______is/are pending in the application. Of the above claim(s) is/are withdrawn from consideration. _____is/are allowed. ☐ Claim(s)_ \bigcirc Claim(s) 1-13is/are rejected. is/are objected to. ☐ Claim(s)_ are subject to restriction or election □ Claim(s) requirement. **Application Papers** See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948. ☐ The proposed drawing correction, filed on ______ is ☐ approved ☐ disapproved. ☐ The drawing(s) filed on______ is/are objected to by the Examiner. □ The specification is objected to by the Examiner. ☐ The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. § 119 (a)-(d) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 11 9(a)-(d). ☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been received. ☐ received in Application No. (Series Code/Serial Number) received in this national stage application from the International Bureau (PCT Rule 1 7.2(a)). *Certified copies not received:___ Attachment(s) ★Information Disclosure Statement(s), PTO-1449, Paper No(s). ☐ Interview Summary, PTO-413 ☐ Notice of Informal Patent Application, PTO-152 ☑ Notice of Reference(s) Cited, PTO-892 Notice of Draftsperson's Patent Drawing Review, PTO-948 □ Other______

Office Action Summary

U. S. Patent and Trademark Office PTO-326 (Rev. 9-97)

Part of Paper No.



Application/Control Number: 09/377,383

Art Unit: 2721

DETAILED ACTION

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 2. Claims 3-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The term "demposition" in line 22 of page 15 (or claim 3, line 6) renders claim vague and indefinite because it is unclear to the examiner what applicant refers to. Claim 4-5 are rejected as being upon the rejected based claim.
- 3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Shapiro (U.S. Pat. No.5,563,960).

Regarding claims 1 and 9, Shapiro discloses: a packet header (see item 38 of figs. 1-2 and item 54 of fig. 2); and a payload (see item 40 of figs. 1-2 and item 54 of fig. 2) having at least one texture unit only of AC coefficients from a single subband of a hierarchical subband decomposed image (see fig. 3; and col. 4, lines 1-28).

Regarding claim 2, Shapiro discloses: a packet header (see item 38 of figs. 1-2 and item 54 of fig. 2); and a payload (see item 40 of figs. 1-2 and item 54 of fig. 2) having at least one



Application/Control Number: 09/377,383

Art Unit: 2721

texture unit only of AC coefficients from all subbands of a decomposition level of a hierarchical subband decomposed image (see fig. 3; and col. 4, lines 1-28).

Regarding claim 3, Shapiro discloses: a packet header (see item 38 of figs. 1-2 and item 54 of fig. 2); and a payload (see item 40 of figs. 1-2 and item 54 of fig. 2) having a texture unit consisting only of AC coefficients across n subbands, where n represents a number smaller that a number of decomposition levels of a hierarchical subband decomposed image (see fig. 3-5; and col. 4, lines 1-28).

Regarding claim 4, Shapiro discloses where n is two (see figs. 3-5).

Regarding claim 5, Shapiro discloses where n is three (see figs. 3-5).

Regarding claim 6, Shapiro discloses: a packet header (see item 38 of figs. 1-2 and item 54 of fig. 2); and a payload (see item 40 of figs. 1-2 and item 54 of fig. 2) having a texture unit comprising bits from a plurality of DC transform coefficients that form a single bitplane (see fig. 3; and col. 4, lines 1-28).

Regarding claim 7, Shapiro discloses: generating a packet header (see items 10 & 38 of fig. 1 and item 54 of fig. 2); and generating a payload (see items 10 & 40 of figs. 1 and item 54 of fig. 2) having at least one texture unit consisting only of AC coefficients from a single subband of a hierarchical subband decomposed image (see fig. 3; and col. 4, lines 1-28).

Regarding claim 8, Shapiro discloses: generating a packet header (see items 10 & 38 of fig. 1 and item 54 of fig. 2); and generating a payload (see items 10 & 40 of figs. 1 and item 54 of fig. 2) having at least one texture unit consisting only of AC coefficients from all subbands of a



Application/Control Number: 09/377,383

Art Unit: 2721

decomposition level of the hierarchical subband decomposed image (see fig. 3; and col. 4, lines 1-28).

Regarding claim 9, Shapiro discloses: generating a packet header (see items 10 & 38 of fig. 1 and item 54 of fig. 2); and generating a payload (see items 10 & 40 of fig. 1 and item 54 of fig. 2) having a texture unit consisting only of AC coefficients across n subbands, where n represents a number smaller that a number of decomposition levels of a hierarchical subband decomposed image (see fig. 3-5; and col. 4, lines 1-28).

Regarding claim 10, Shapiro discloses where n is two (see figs. 3-5).

Regarding claim 11, Shapiro discloses where n is three (see figs. 3-5).

Regarding claim 12, Shapiro discloses: a packet header (see item 38 of figs. 1-2 and item 54 of fig. 2); and a payload (see items 10 & 40 of fig. 1 and item 54 of fig. 2) having a texture unit comprising bits from a plurality of DC transform coefficients that form a single bitplane (see fig. 3; and col. 4, lines 1-28).

Regarding claim 13, Shapiro discloses: generating a packet header (see items 10 & 38 of fig. 1 and item 54 of fig. 2); and generating a payload (see items 10 & 40 of fig. 1 and item 54 of fig. 2) for carrying coefficients, where said payload has a payload size that varies in accordance with coefficients from a subband or decomposition level of said hierarchical subband decomposed image (see fig. 3; and col. 4, lines 1-28).

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Shapiro (Embedded Image Coding Using Zerotrees of Wavelet Coefficients); Rogers



Art Unit: 2721

et al. (Robust Wavelet Zerotree Image Compression With Fixed-length Packetization); Said et al. (A New, Fast, and Efficient Image Codec Based on Set Partitioning in Hierarchical Trees); and Chao et al. (US Patent No. 4,893,306) disclose the same field of invention.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duy (Dan) M. Dang whose telephone number is (703) 305-1464. The examiner can normally be reached on Monday to Friday from 7:30AM to 4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo H. Boudreau, can be reached on (703) 305-4706. The fax phone number for formal or official faxes to be received in the E-Cluster is (703) 308-9051 and for drafts and informal faxes is (703) 306-5406.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Buy

Duy M. Dang 6/29/00

JOSE L. COUSO PRIMARY EXAMINER